



DEFENSE LOGISTICS AGENCY
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IN REPLY
REFER TO

DSCC-VAC (Mr. Saffle/DSN 850-0540/(614)692-0540)

June 24, 2008

MEMORANDUM FOR VSS
Mr. Carucci

SUBJECT: Dated Engineering Practices Study to Review Proposed Changes to MIL-PRF-38535 for Mixed Date Codes and Multiple Date Codes on One (1) Certificate of Conformance;
Project Number: 5962-2008-004

The findings and recommendations resulting from this Engineering Practices Study, dated June 24, 2006, result in no changes to the MIL-PRF-38535 specification.

It is requested that your office take the necessary electronic action to reflect completion of this project.

/ signed /
Thomas M. Hess
Chief,
Active Devices Team



ENGINEERING PRACTICE STUDY

**TITLE: Proposed Changes to MIL-PRF-38535
for Mixed Date Codes
and
Multiple Date Codes on
One (1) Certificate of Conformance**

June 24, 2008

STUDY PROJECT 5962-2008-004

FINAL REPORT

**Study Conducted by DSCC
on
JEDEC JC-13.2 Request**

Prepared by:

Charles Saffle

- I. OBJECTIVE: The purpose of this Engineering Practice (EP) Study was to evaluate the requested changes to MIL-PRF-38535 revision H by the user community, and determine the DoD position regarding these requested changes.
- II. BACKGROUND: Changes to MIL-PRF-38535 was requested to prevent manufacturers from mixing products with different date codes in immediate (unit) and intermediate containers, and from listing products with multiple date codes on One (1) Certificate of Conformance (C of C). The lack of requirements in MIL-PRF-38535, allowing this practice, is said to be resulting in distribution problems and delays, as buyers are requesting single date code product.
- III. RESULTS: The EP Study project was opened. The EP Study changes were highlighted in the affected paragraphs of MIL-PRF-38535, and were distributed for review and comment during the time period of March 19, 2008 through May 5, 2008 (see attachment). Input was solicited from all interested parties, including the military services, microcircuit manufacturers, microcircuit distributors, original equipment manufacturers, and user communities, concerning the requested changes.

Comments were received and compiled concerning the requested changes. The results and comments were reported at the Joint JC-13.2/G-12 Meeting on May 21, 2008 of the JEDEC conference in Colorado Springs, CO.

There were 13 responses to the EP Study, of which 7 were in favor of the changes, 5 were opposed to the changes, and 1 was neither in favor of or opposed to the changes.

After much discussion of the EP Study results and comments at the Joint JC-13.2/G-12 Meeting, a vote was called of the JC-13.2 members for approval of the changes. The JC-13.2 members vote resulted in 7 voting for the changes, 7 voting against the changes, and 8 voting to abstain. A similar vote was then called of the G-12 members for approval of the changes. The G-12 members vote resulted in 0 voting for the changes, 5 voting against the changes, and 6 voting to abstain.

- IV. CONCLUSIONS: The comments received on this EP Study, and the results of the JC-13.2/G-12 votes on the proposed changes, indicate that there is not sufficient need or support to make the proposed changes to MIL-PRF-38535 revision H.
- V. RECOMMENDATION: DSCC recommends that the proposed changes of this EP Study not be made to the current MIL-PRF-38535 revision H.

ATTACHMENT

PROPOSED CHANGES

STUDY PROJECT 5962-2008-004

Add the following proposed new paragraph, 3.14, to section 3. Requirements, of the main body of MIL-PRF-38535:

3.14 Mixed product date codes. Mixing of device product date codes in immediate (unit) and intermediate containers shall not be permitted.

Add the following proposed sentence to paragraph 3.2.1 of the main body of MIL-PRF-38535:

3.2.1 Certification of conformance and acquisition traceability. Manufacturers or suppliers including distributors who offer QML microcircuits described by this specification shall provide written certification, signed by the corporate officer who has management responsibility for the production of the QML microcircuits, (1) that the QML microcircuits being supplied have been manufactured and meet the performance defined in the specification whether or not the actual testing has been performed, (2) that all QML microcircuits are as described on the certificate of conformance which accompanies the shipment, and (3) that dealers and distributors have handled the QML microcircuit in accordance with the requirements of JESD625 and JESD31. The responsible corporate official may, by documented authorization, designate other responsible individuals to sign the certificate of conformance (such as members of the manufacturer's review system), but, the responsibility for conformity with the facts shall rest with the responsible corporate officer. The certification shall be confirmed by documentation to the Government or to users with Government contractors or subcontractors, regardless of whether the QML microcircuits are acquired directly from the manufacturer or from another source such as a distributor. When other sources are involved, their acquisition certification shall be in addition to the certificates of conformance and acquisition traceability provided by the manufacturer and previous distributors. **Only one (1) date code per C of C shall be permitted.** The certificate shall include the following information:

Add the following proposed sentence to paragraph A.3.3.1 of appendix A of MIL-PRF-38535:

A.3.3.1 Certification of conformance and acquisition traceability. Manufacturers or suppliers including dealers and distributors who offer the product described by this appendix shall provide written certification, signed by the corporate officer who has management responsibility for the production and assurance of the quality and reliability of the product, (1) that the product being supplied has been manufactured and tested in accordance with this appendix and conforms to all of its requirements, and can be reasonably expected to remain in conformance indefinitely unless destructively mishandled, (2) that all products are as described on the certificate which accompanies the shipment, and (3) that dealers and distributors have handled the product in accordance with the requirements of JESD625 and JESD31. The responsible corporate official may, by documented authorization, designate other responsible individuals to sign the certificate, but, the responsibility for conformity with the facts shall rest with the responsible corporate officer. The certification shall be confirmed by documentation to the Government or to users with Government contractors or subcontractors, regardless of whether the products are acquired directly from the manufacturer or from another source such as a distributor. When other sources are involved, their acquisition certification shall be in addition to the certificates of conformance and acquisition traceability provided by the manufacturer and previous distributors. **Only one (1) date code per C of C shall be permitted.** The certificate shall include the following information:

Add the following proposed new paragraph, A.3.4.8, to section A.3.4. Quality assurance requirements, of appendix A of MIL-PRF-38535:

A.3.4.8 Mixed product date codes. Mixing of device product date codes in immediate (unit) and intermediate containers shall not be permitted.